(19) World Intellectual Property Organization

International Bureau OM





(43) International Publication Date 12 January 2006 (12.01.2006)

(10) International Publication Number WO 2006/005048 A3

- (51) International Patent Classification: *G06F 15/16* (2006.01)
- (21) International Application Number:

PCT/US2005/023721

(22) International Filing Date: 29 June 2005 (29.06.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/583,790 30 June 2004 (30.06.2004) US

- (71) Applicant (for all designated States except US): IDIRECT INCORPORATED [US/US]; 13865 Sunrise Valley Drive, Herndon, VA 20171-4661 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): EDSBERG, David, B.S. [DK/US]; 12819 Briary River Terrace, Herndon, VA 20170 (US).
- (74) Agent: LYTLE, Bradley, D.; Oblon, Spivak, McClelland, Maier & Neustadt, P.C., 1940 Duke Street, Alexandria, VA 22314 (US).

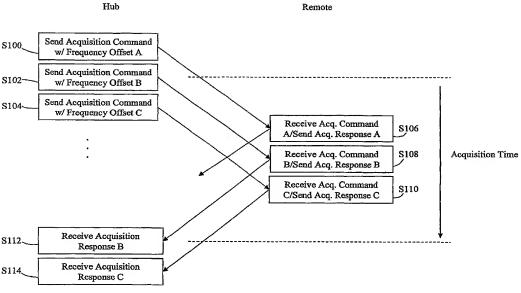
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: METHOD, APPARATUS AND SYSTEM FOR RAPID ACQUISITION OF REMOTE NODES IN A COMMUNICATION SYSTEM



(57) Abstract: A method of acquiring a remote node in a communication network includes sending a first acquisition command from a hub to the remote that instructs the remote to send an acquisition response and includes a first frequency (S100). The method also includes sending a first acquisition response based on the first acquisition command from the remote to the hub using the first frequency (S106) and sending a second acquisition command from the hub before receiving the first acquisition response at the hub (S102). A related method of acquiring a remote node in a synchronous communication network and a related hub apparatus, remote apparatus, computer program product and system each include similar features.

(88) Date of publication of the international search report: 9 March 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.